ABSTRACT

A process for preparing an optically active biaryl compound the formula (4):

$$\mathbb{R}^*)_{n_1} \stackrel{\text{II}}{=} \mathbb{R}^2)_{n_2}$$
 (4)

which comprises reacting an aromatic sulfonic acid ester compound of the formula (1):

$$\mathbb{R}^*)_{n_1} = \mathbb{R}^0 \mathbb{R}^1$$
 (1)

with an organic boron compound of the formula (2):

$$R^3-B$$
Q² (2)

at 70°C or below in the presence of a nickel catalyst and a base. The biaryl compounds produced using this process possess a high optical purity and are useful as intermediates for medicaments, agrochemicals, etc.